a. Clearly define the decision variables

Number of Collegiate: X1

Number of Mini: X2

b. What is the objective function?

$$P(profit) = 32*X1 + 24*X2$$

c. What are the constraints?

$$0.75*X1 + (2/3*X2) \le 35*40$$

d. Write down the full mathematical formulation for this LP problem

$$P = 32*X1 + 24*X2$$

$$0.75*X1 + (2/3*X2) \le 1400$$